# REFUSE CALCULATIONS

#### Per DSPM Table 2-1.311.B.

## **Building P**

Mixed-use Development (Non-Residential with Residential)

Required Number of Refuse Enclosures With Recycling -

2 enclosures for first 15,000 SF of non-residential building area and the first 15 units. Where additional non-residential building SF area and units are provided, 2 enclosures for each additional 30,000 SF of non-residential floor area and 2 enclosures additional for each 30 units.

Total Non-Residential = 26,422 SF

26,422 SF - 15,000 SF = 11,422 SF additional non-residential building SF

Total Dwelling Units = 41 DU

41 DU - 15 DU = 26 additional units

#### Required Refuse Enclosures:

- 2 enclosures (First 15,000 SF & first 15 units)
- + 2 enclosures (additional non-residential building SF)
- + 2 enclosures (additional units)
- 6 enclosures required

6 refuse containers x 6 yards per enclosure = 36 yards

36 yards x 4:1 C.O.S. Compaction Ratio = 9 yard compactor equivalent

Provided Refuse Compactor: Marathon Compactor RJ=250SC 15 yard compactor  $\times$  2 = 30 yards total <u>Provided</u> Recycle Compactor: Marathon Compactor RJ=250SC 15 yard compactor  $\times$  2 = 30 yards total

### **Building S, T & U**

Non-Residential Development

Required Number of Refuse Enclosures With Recycling -

2 enclosures for each 30,000 SF of building space

Building S = 73,207 SF

Building T = 5,056 SF

Building U = 74,835 SF

153,098 SF

#### Required Refuse Enclosures:

 $\overline{153,098}$  SF / 30,000 SF = 5.10 (round up to 6)

 $6 \times 2 = 12$  enclosures required

12 refuse containers x 6 yards per enclosure = 72 yards

72 yards x 4:1 C.O.S. Compaction Ratio = 18 yard compactor equivalent

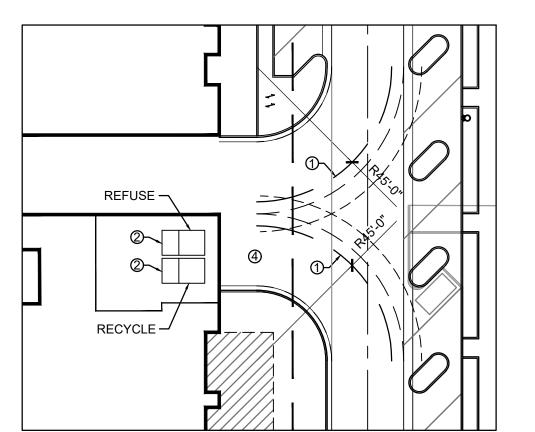
Provided Refuse Compactor: Marathon Compactor RJ=250SC 20 yard compactor

Provided Recycle Compactor: Marathon Compactor RJ=250SC 20 yard compactor

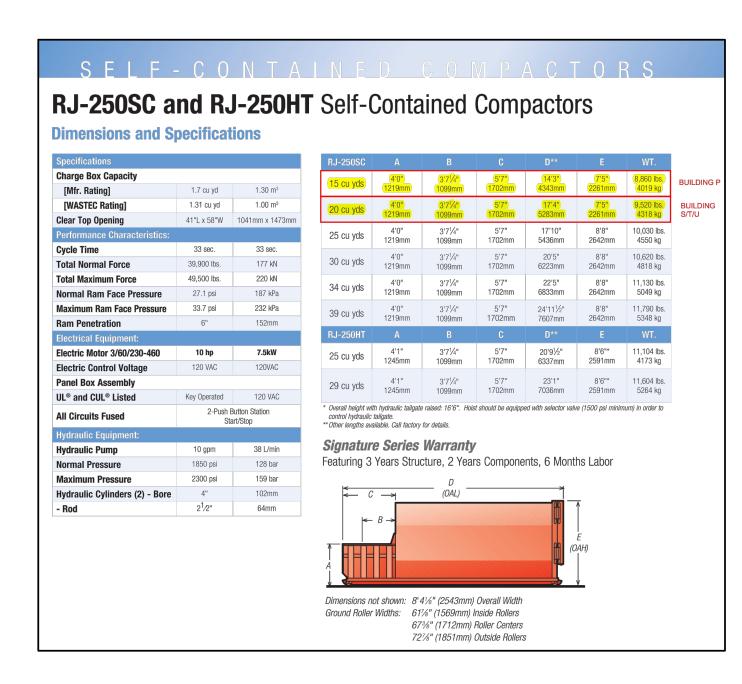
\* Building T and U refuse will be collected as scheduled by the owner with a contracted waste hauler/service provider and hauled to the Building S centralized collection area. This area contains one 20-yard roll-off container with compactor for trash and one roll-off container with compactor for recyclables. Building's T and U will include an internal trash room with HVAC conditioning and exhausting as required by code. Trash and recyclables are collected in separate wheeled carts and connected end-to-end about 3-5 carts long in a train configuration. They are then towed via Gator, Razor or other motorized utility vehicle on the internal streets to the centralized trash and recycling center located at Building S. This strategy mimics the refuse collection strategy for Phase 1.

## NOTES:

1. FIRE TRUCK TURN RADIUS SHOWN AT INTERSECTIONS COMPLY WITH SCOTTSDALE FIRE DEPARTMENT 25'-0" INSIDE RADIUS AND 49'-0" OUTSIDE RADIUS WITH 6'-0" BUCKET SWING. THIS RADIUS ALSO COMPLIES WITH THE MINIMUM VEHICLE TURNING RADIUS OF 45'-0" FOR REFUSE TRUCKS.



**KEYNOTES:** 1. 45' TRUCK TURNING RADIUS 2. DUAL REFUSE / RECYCLING COMPACTOR, SIMILAR TO MARATHON RJ-250SC (15 YD) 3. DUAL REFUSE / RECYCLING COMPACTOR, SIMILAR TO MARATHON RJ-250SC (20 YD) 4. 40' REFUSE VEHICLE LENGTH





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Project No. 318178

> A112 **REFUSE PLAN**

**BLDG S - REFUSE PLAN** SCALE: 1/32"=1'-0"

-RECYCLE

**BLDG P - REFUSE PLAN WEST** SCALE: 1/32"=1'-0"

REFUSE

-RECYCLE

LOADING / SERVICE

-SERVICE ELEVATOR

> **BLDG P - REFUSE PLAN EAST** SCALE: 1/32"=1'-0"

> > 7-ZN-2016#2 8/11/2020